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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,883	07/18/2003	Juha Salokannel	4208-4136	2755
27123	7590	06/06/2006	EXAMINER	
MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			PAN, YUWEN	
			ART UNIT	PAPER NUMBER
			2618	

DATE MAILED: 06/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/622,883	<b>Applicant(s)</b> SALOKANNEL ET AL.	
	<b>Examiner</b> Yuwen Pan	<b>Art Unit</b> 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 18 July 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-12,18-25,29-34,36, and 37 are rejected under 35 U.S.C. 102(e) as being anticipated by Ollis et al (US006999721B2).

Per claim 1, Ollis discloses a system for integrating a plurality of short-range communication protocols, comprising: a unified object transfer mechanism for enabling a enhanced host controller to share use of an RF transceiver between a plurality of communication modules using a plurality of short-range communications protocols (see column 3 and lines 45-63 and figure 1).

Same arguments apply, mutatis mutandis, to independent claims 10, 20, 23, and 32.

Pre claims 2 and 3, Ollis further teaches that the plurality of short-range communication protocols operation in same frequency area (see column 1 and lines 40-50, at least between Bluetooth and IEEE 892.11b standard in which utilize ISM band).

Same arguments apply, mutatis mutandis, to claims 11, 12, 24, 25

Per claim 7 and 8, Ollis further teaches a direct interface between the user and the multi mode device and the device itself keeping a list of different wireless protocol link list (see figure 3-6, corresponding columns and lines number).

Same arguments apply, mutatis mutandis, to claims 21, 22, 29, 30, 33 and 34.

Pre claim 9, Oillis further teaches that at least one signaling protocol for enabling the enhanced host controller to communication with at least one of the plurality of communication modules employing at least one of the plurality of short range communication protocols (see figure 3).

Same arguments apply, mutatis mutandis, to claims 19, 31, 36, and 37.

Per claim 18, Oillis further teaches that the device is one of a cellular phone laptop computer or a PDA (see figure 1).

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4-6, 13-17, 26-28, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ollis et al (US006999721B2) in view of applicant admitted prior art (hereinafter, APA).

Per claim 4-6, Ollis discloses an analogous art as recited in claims 1, 10, 20, 23 and 30. Ollis doesn't teach the plurality of short-range communication protocols including LEE communication protocol and RFID communication protocol. APA discloses the LEE allows Bluetooth devices to communicate with other devices with other devices that are developed for low-cost and low-power communications and various RFID tags have been developed to be compatible with Bluetooth that operates in the 2.4 GHz radio band (see page 2). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of APA with Ollis's device such that it is easy for user to operate such multi wireless mode device without knowing all the short-range protocols.

Same arguments apply, mutatis mutandis, to claims 13-17, 26-28, and 35.


### ***Conclusion***

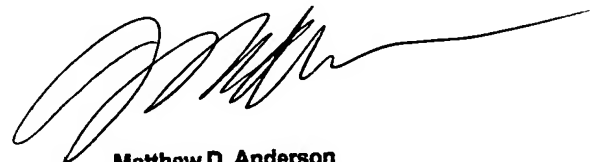
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 571-272-7855. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anderson D. Matthew can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Xuwen Pan  
May 29, 2006

  
**Matthew D. Anderson**  
Supervisory Patent Examiner